

CHEMICO-BIOLOGICAL INTERACTIONS

CONTENTS

VOLUME 82 (1992)

In vivo covalent binding of [¹⁴ C]trinitrotoluene to proteins in the rat Y.-Y. Liu, A.Y.H. Lu, R.A. Stearns and S.-H.L. Chiu (Rahway, NJ)	1
Drug residue formation from ronidazole, a 5-nitroimidazole. VIII. Identification of the 2-methylene position as a site of protein alkylation R.F. Alvaro, P.G. Wislocki, G.T. Miwa and A.Y.H. Lu (Rahway, NJ)	21
Calf thymus DNA binding/bonding properties of CC-1065 and analogs as related to their biological activities and toxicities W.G. Krueger and M.D. Prairie (Kalamazoo, MI)	31
In search of a correlation between the electron affinity and the radiosensitizing activity of some glyoxylic compounds P. Cornago, L. Santos, Y. Smeyers, C. Lopez Zumel and C. Izquierdo (Madrid, Spain)	47
Inactivation and repair of double-stranded DNA damaged by the aziridinylnitroimidazole RSU 1069 M.V.M. Lafleur, E.J. Westmijze, O.J. Visser, N. Wagenaar, R. Soetekouw, H. Loman and J. Retel (Amsterdam, The Netherlands)	55
Isolation and characterization of the initial radical adduct formed from linoleic acid and α - (4-pyridyl 1-oxide)- <i>N</i> -tert-butyl nitron in the presence of soybean lipoxygenase P.W. Albro, K.T. Knecht, J.L. Schroeder, J.T. Corbett, D. Marbury, B.J. Collins and J. Charles (Research Triangle Park and Chapel Hill, NC)	73
Methylations in hemoglobin from monozygotic twins discordant for cigarette smoking: heredi- tary and tobacco-related factors M. Törnqvist, M. Svartengren and C.H. Ericsson (Stockholm, Sweden)	91
Glutathione is the antioxidant responsible for resistance to oxidative stress in V79 Chinese hamster fibroblasts rendered resistant to cadmium L.S. Chubatsu, M. Gennari and R. Meneghini (São Paulo, Brazil)	99
In-vitro interaction between nitrofurantoin and <i>Vibrio cholerae</i> DNA U. Mukherjee and S.N. Chatterjee (Calcutta, India)	111
Mutagenic activity of arylnitrenium ions from arylazides — induction of sister chromatid exchange in mammalian (V79 Chinese hamster) cells D. Wild (Würzburg, Germany)	123
Announcements	133
Melittin-induced alterations in dynamic properties of human red blood cell membranes C. Watala and K. Gwoździński (Łódź, Poland)	135
Reactions of nitrosonitrobenzenes with biological thiols: identification and reactivity of glutathion-S-yl conjugates M.K. Ellis, S. Hill and P.M.D. Foster (Alderly Park, U.K.)	151
Mitochondrial oxidation of <i>p</i> -phenylenediamine derivatives in vitro: structure-activity relationships and correlation with myotoxic activity in vivo R. Munday (Hamilton, New Zealand)	165
Effects of synthetic and naturally occurring flavonoids on metabolic activation of benzo[<i>a</i>]pyrene in hamster embryo cell cultures Y.-H. Chae, D.K. Ho, J.M. Cassady, V.M. Cook, C.B. Marcus and W.M. Baird (Columbus, OH)	181

Organ-specific DNA damage of tris(2,3-dibromopropyl)phosphate and its diester metabolite in the rat E.J. Söderlund, G. Brunborg, E. Dybing, B. Trygg, S.D. Nelson and J.A. Holme (Seattle, WA).....	195
Inhibition by thiols of copper(II)-induced oxidation of oxyhemoglobin R.C. Smith and V.D. Reed (Alabama, USA)	209
In vitro adsorption of a hydrophobic mutagen to gastrointestinal mucus glycoprotein (mucin) and dietary fibre T.C.K. Ng, L.R. Ferguson, P.J. Haris, M.E. Watson and A.M. Robertson (Auckland, New Zealand)	219
In vitro metabolism of bladder carcinogenic nitrosamines by rat liver and urothelial cells L. Airoldi, C. Magagnotti, G. De Gregorio, M. Moret and R. Fanelli (Milan, Italy)	231
Announcements	241
<i>Review Article</i>	
Monitoring of oxidative free radical damage in vivo: Analytical aspects J.J. Hageman, A. Bast and N.P.E. Vermeulen (Amsterdam, The Netherlands)	243
Changes in the cytoskeleton pattern of tumor cells by cisplatin in vitro P. Köpf-Maier and S.K. Mühlhausen (Berlin, Germany)	295
Covalent binding of perfluorinated fatty acids to proteins in the plasma, liver and testes of rats J.P. Vanden Heuvel, B.I. Kuslikis and R.E. Peterson (Madison, WI)	317
Influence of methoxy and nitro groups in the oxidative metabolism of naphtho[2,1-b]furan H. Strapelias, J.C. Tabet, Y. Prigent, S. Lecoq and M. Duquesne (Paris, Mont Saint Aignan, France)	329
Announcement	347
Subject Index Volume 82 (1992)	349
Author Index Volume 82 (1992)	353
Contents Volume 82 (1992)	355